



UNITED STATES PATENT AND TRADEMARK OFFICE

fi-D

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/507,321	06/28/2005	Yoshimaro Fujii	046124-5317	2802

55694 7590 06/25/2007  
DRINKER BIDDLE & REATH (DC)  
1500 K STREET, N.W.  
SUITE 1100  
WASHINGTON, DC 20005-1209

EXAMINER

ULLAH, ELIAS

ART UNIT PAPER NUMBER

2812

MAIL DATE DELIVERY MODE

06/25/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/507,321	FUJII ET AL.	
	Examiner	Art Unit	
	Elias Ullah	2812	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
 Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1)  Responsive to communication(s) filed on 28 June 2005.
- 2a)  This action is FINAL.                                      2b)  This action is non-final.
- 3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4)  Claim(s) 13-55 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5)  Claim(s) 19-23, 29-33 and 39-43 is/are allowed.
- 6)  Claim(s) 13-18, 24-28, 34-38, 44-55 is/are rejected.
- 7)  Claim(s) \_\_\_\_\_ is/are objected to.
- 8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9)  The specification is objected to by the Examiner.
- 10)  The drawing(s) filed on 08 April 2005 is/are: a)  accepted or b)  objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    - a)  All    b)  Some \*    c)  None of:
    - 1.  Certified copies of the priority documents have been received.
    - 2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    - 3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1)  Notice of References Cited (PTO-892)
- 2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3)  Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date See Continuation Sheet.
- 4)  Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.
- 5)  Notice of Informal Patent Application
- 6)  Other: \_\_\_\_\_.

Continuation of Attachment(s) 3. Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :11/09/2006,  
6/20/06/4/20/06, 4/4/06, 2/22/06, 8/30/05, 5/4/2005.

1 1 1 1

**DETAILED ACTION**

This office action is in response to an application filed on 6/28/2005.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 13, 17-18, 24-28, 34-38, 44-55 are rejected under 35 U.S.C. 102(b) as being anticipated by Srinivasan (US 5,211,805).

With respect to claims 13, 24-28, 34-38, 44-47 Srinivasan shows a laser processing method comprising the step of irradiating an object to be processed comprising a substrate and a laminate part disposed on a front face of the substrate with laser light while positioning a light-converging point at least within the substrate (col. 6, lines 1 –51), so as to form a modified region due to multiphoton absorption at least within the substrate, and causing the modified region to form a starting point region for cutting along a line along which the object should be cut in the object inside by a predetermined distance from a laser light incident face of the object.

With respect to claims 17-18, and 48-51 Srinivasan shows a substrate dividing method wherein a front face of the substrate is formed with a functional device; and wherein a rear face of the substrate is ground in the step of grinding the substrate; wherein the step of grinding the substrate includes a step of subjecting the rear face of the substrate to chemical etching (col. 4, lines 38-50).

With respect to claims 52-55 Srinivasan shows a substrate dividing method wherein the substrate is ground such that at least a part of a fracture generated from the starting point region for cutting acting as a start point in the thickness direction of the substrate remains in the substrate and modified region does not remain in the substrate in the step of grinding the substrate (col. 6, lines 9-25).

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Srinivasan as applied to claim 13 above, and further view of Yamazaki et al. (Pub. No.: US 2002/0158288).

With regard to claims 14-16 Srinivasan fails to show the substrate is a semiconductor substrate and the substrate is an insulating substrate, but Yamazaki et al. semiconductor substrate and the substrate is an insulating substrate [0168]. In view of this disclosure, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form a substrate with semiconductor substrate of Srinivasan because semiconductor substrate is used to form IC circuits.

***Allowable Subject Matter***

Claims 19-23, 29-33 and 39-43 allowed.

**REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance: with respect to claims 19-23, 29-33 and 39-43, there is no prior art available or obvious motivation to combine elements of prior art which teach the step of irradiating an object to be processed comprising a substrate and a laminate part disposed on a front face of the substrate with laser light while positioning a light converging point at least within the substrate under a condition with a peak power density of at least  $1 \times 10^8$  (W/cm<sup>2</sup>) at the light converging point and a pulse width of 1 micro second or less. The closest art (US 5,211,805) of the record teach peak power density  $1 \times 10^6$  (W/cm<sup>2</sup>).

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elias Ullah whose telephone number is (571) 272-1415. The examiner can normally be reached on weekdays, between 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MICHAEL LEBENTRITT can be reached on (571) 272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2812

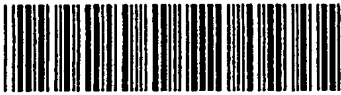
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

E. Ullah,  
June 19, 2007.

SCOTT B. GEYER  
PRIMARY EXAMINER

*S. B. Geyer* 6/19/07

**Search Notes**



Application/Control No.

10/507,321

Examiner

Elias Ullah

Applicant(s)/Patent under Reexamination

FUJII ET AL.

Art Unit

2812

SEARCHED			
Class	Subclass	Date	Examiner
438	460	6/19/2007	EU

SEARCH NOTES (INCLUDING SEARCH STRATEGY)		
	DATE	EXMR
EAST database serach	6/19/2007	EU

INTERFERENCE SEARCHED			
Class	Subclass	Date	Examiner





UNITED STATES PATENT AND TRADEMARK OFFICE

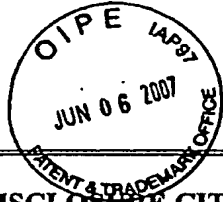
UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov



Bib Data Sheet

CONFIRMATION NO. 2802

<b>SERIAL NUMBER</b> 10/507,321	<b>FILING OR 371(c) DATE</b> 06/28/2005 <b>RULE</b>	<b>CLASS</b> 438	<b>GROUP ART UNIT</b> 2812	<b>ATTORNEY DOCKET NO.</b> 046124-5317
<b>APPLICANTS</b> Yoshimaro Fujii, Shizuoka, JAPAN; Fumitsugu Fukuyo, Shizuoka, JAPAN; Kenshi Fukumitsu, Shizuoka, JAPAN; Naoki Uchiyama, Shizuoka, JAPAN; JEO				
<b>** CONTINUING DATA *****</b> This application is a 371 of PCT/JP03/02669 03/06/2003 JEO				
<b>** FOREIGN APPLICATIONS *****</b> JAPAN 2002-67289 03/12/2002				
Foreign Priority claimed 35 USC 119 (a-d) conditions met Verified and Acknowledged	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance Examiner's Signature: <i>[Signature]</i> Initials: <i>ESU</i>	<b>STATE OR COUNTRY</b> JAPAN	<b>SHEETS DRAWING</b> 21	<b>TOTAL CLAIMS</b> 12 <b>INDEPENDENT CLAIMS</b> 7
<b>ADDRESS</b> 55694				
<b>TITLE</b> Method for dicing substrate				
<b>FILING FEE RECEIVED</b> 7734	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees ( Filing ) <input type="checkbox"/> 1.17 Fees ( Processing Ext. of time ) <input type="checkbox"/> 1.18 Fees ( Issue ) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit	



**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)

PTO Form 1449

Attorney Docket No.: 46884-5317	Serial No.: 10/507,321
Applicants: Yoshimaro FUJII et al.	Page 1 of 1
Filing Date: June 28, 2005	Group Art Unit: 2812

**U.S. PATENT DOCUMENTS**

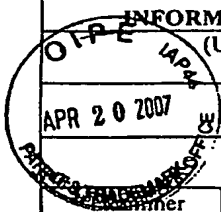
*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Sub Class	Translation	
						YES	NO
/EU/	WO 2004/082006 A1	September 23, 2004	PCT	—	—	Abstract	

Examiner /Elias Ullah/ (06/19/2007)	Date Considered 06/19/2007
-------------------------------------	----------------------------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)	Attorney Docket No.: 46884-5317	Serial No.: 10/507,321
	Applicants: Yoshimaro FUJII et al.	Page 1 of 2
PTO Form 1449	Filing Date: June 28, 2005	Group Art Unit: 2812

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
/EU/	2004/0002199	January 1, 2004	Fukuyo et al.	-	-	
	2005/0189330	September 1, 2005	Fukuyo et al.	-	-	
	2006/0040473	February 23, 2006	Fukuyo et al.	-	-	
	3,626,141	December 7, 1971	Daly, Richard T.	-	-	
	3,790,051	February 5, 1974	Moore	-	-	
	4,531,060	July 23, 1985	Suwā et al.	-	-	
	5,230,184	July 27, 1993	Bukhman	-	-	
	5,841,543	November 24, 1998	Guldi et al.	-	-	
	5,925,271	July 20, 1999	Polluck et al.	-	-	
	5,968,382	October 19, 1999	Matsumoto	-	-	
	5,976,392	November 2, 1999	Chen	-	-	
	6,175,096	January 16, 2001	Nielsen	-	-	
	6,325,855	December 4, 2001	Sillmon et al.	-	-	
	6,992,026	January 31, 2006	Fukuyo et al.	-	-	
	2002/0170896	November 21, 2002	Choo et al.	-	-	
/EU/	3,610,871	October 5, 1971	Lumley, Robert M.	-	-	

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Country	Class	Sub Class	Translation	
						YES	NO
/EU/	03-234043	October 18, 1991	Japan	—	—	Abstract	
	04-029352	January 31, 1992	Japan	—	—	Abstract	
	04-356942	December 10, 1992	Japan	—	—	Abstract	
	08-197271	August 6, 1996	Japan	—	—	Abstract	
	10-071483	March 17, 1998	Japan	—	—	Abstract	
	10-214997	August 11, 1998	Japan	—	—	Abstract	
	10-233373	September 2, 1998	Japan	—	—	Abstract	
	2000-104040	April 11, 2000	Japan	—	—	Abstract	
	2000-195828	July 14, 2000	Japan	—	—	Abstract	
	/EU/	2000-216114	August 4, 2000	Japan	—	—	Abstract

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

F. Fumitsugu, "The Stealth Dicing Technologies and Their Applications," Journal of Japan Laser Processing Society, Vol. 12, No. 1, February 2005, pp. 17-23, with English translation.

R. Sugiura et al., "The Stealth Dicing Technologies and Their Applications," Proceedings of the 63<sup>rd</sup> Laser Materials Processing Conference, May 2005, pp. 115-123, with English abstract.

A. Ishii et al., "CO2 Laser Processing Technology, Nikkan Kogyo Publishing Production, December 21, 1992, pps. 63-65 (with partial English translation)

Journal of the Japan Society of Grinding Engineers, Vol. 47, No. 5, May 2003, pps. 229-231, English translation.

K. Hayashi, "Inner Glass Marking by Harmonics of Solid-state Laser," Proceedings of 45<sup>th</sup> Laser Materials Processing Conference, December 1998, pps. 23-28, with English abstract.

Examiner	/Elias Ullah/ (06/19/2007)	Date Considered	06/19/2007
----------	----------------------------	-----------------	------------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)	Attorney Docket No.: 46884-5317	Serial No.: 10/507,321
PTO Form 1449	Applicants: Yoshimaro FUJII et al.	Page 2 of 2
	Filing Date: June 28, 2005	Group Art Unit: 2812

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Sub Class	Translation	
						YES	NO
/EU/	2000-219528	August 8, 2000	Japan			Abstract	
	2001-127015	May 11, 2001	Japan			Abstract	
	2001-250798	September 14, 2001	Japan			Abstract	
	2002-050589	February 15, 2002	Japan			Abstract	
	2002-192370	July 10, 2002	Japan			Abstract	
	2002-205181	July 23, 2002	Japan			Abstract	
	2002-226796	August 14, 2002	Japan			Abstract	
	2003-001458	January 8, 2003	Japan			Abstract	
	2005-047290	February 24, 2005	Japan			Abstract	
	2005-313237	November 10, 2005	Japan			Abstract	
	WO 01/90709 A1	November 29, 2001	PCT			Abstract	
	WO 02/22301	March 21, 1002	PCT			Abstract	
/EU/	KR2001-017690 (Abstract)	August 13, 1999	Korea			Abstract	

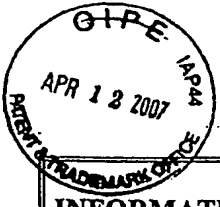
**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

K. Midorikawa, "Recent Progress of Femtosecond Lasers and Their Applications to Material Processing", December 31, 1998, pp. 29-38, ISBN: 4-947684-21-6, with English language abstract.

The 6<sup>th</sup> International Symposium on Laser Precision Microfabrication, April 2005, Symposium Program and Technical Digest, including F. Fukuyo et al., "Stealth Dicing Technologies and Their Applications," English abstract.

<del> </del>
<del> </del>
<del> </del>
<del> </del>
<del> </del>
<del> </del>
<del> </del>
<del> </del>
<del> </del>
<del> </del>

Examiner	/Elias Ullah/ (06/19/2007)	Date Considered	06/19/2007
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			



**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)

PTO Form 1449

Attorney Docket No.: 46884-5317  
 Serial No.: 10/507,321  
 Applicants: Yoshimaro FUJII et al. Page 1 of 1  
 Filing Date: June 28, 2005  
 Group Art Unit: 2812

**U.S. PATENT DOCUMENTS**

*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
<del> </del>						
<del> </del>						
<del> </del>						
<del> </del>						
<del> </del>						

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Sub Class	Translation	
						YES	NO
/EU/	JP 2002-192368	July 10, 2002	JP	—	—	Abstract	
<del> </del>							
<del> </del>							
<del> </del>							
<del> </del>							
<del> </del>							
<del> </del>							
<del> </del>							
<del> </del>							

Examiner /Elias Ullah/ (06/19/2007) Date Considered 06/19/2007

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)

PTO Form 1449

Attorney Docket No.:

46884-5317

Serial No.:

10/507,321

Applicants:

Yoshimaro FUJII et al.

Page 1 of 1

Filing Date: June 28, 2005

Group Art Unit: 2812

**U.S. PATENT DOCUMENTS**

*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Sub Class	Translation	
						YES	NO
/EU/	JP 8-264488	October 11, 1996	JP			Abstract	
	JP 9-17831	January 17, 1997	JP			Abstract	
	JP 11-121517	April 30, 1999	JP			Abstract	
	JP 2002-192367	July 10, 2002	JP			Abstract	
	JP 4-188847	July 7, 1992	JP			Abstract	
	JP 7-263382	October 13, 1995	JP			Abstract	
	JP 9-263734	July 10, 1977	JP			Abstract	
	JP 2002-158276	May 31, 2002	JP			Abstract	
	JP 2006-135355	May 25, 2006	JP			Abstract	
	JP 2006-128723	May 18, 2006	JP			Abstract	


Examiner

/Elias Ullah/ (06/19/2007)

Date Considered

06/19/2007

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary) 	<b>Attorney Docket No.:</b> 46884-5317-00	<b>Serial No.:</b> 10/507,321
	<b>Applicants:</b> Yoshimaro FUJII et al.	<b>Page 1 of 1</b>
	<b>Filing Date:</b> June 28, 2005	<b>Group Art Unit:</b> 2812

PTO Form 1449

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Sub Class	Translation	
						Yes	No
/EU/	11-162889	June 18, 1999	Japan			X (abstract)	
	61-121453	Sept. 6, 1986	Japan			X (abstract)	
	2005-001001	Jan. 6, 2005	Japan			X (abstract)	
	2003-334812	Nov. 25, 2003	Japan			X (abstract)	
	2000-042764	Feb. 15, 2000	Japan			X (abstract)	
	05-335726	Dec. 17, 1993	Japan			X (abstract)	
	2003-338467	Nov. 28, 2003	Japan			X (abstract)	
	05-335726	Dec. 17, 1993	Japan			X (abstract)	
	2003-338467	Nov. 28, 2003	Japan			X (abstract)	
	11-163097	June 18, 1999	Japan			X (abstract)	
	06-188310	July 8, 1994	Japan			X (abstract)	
	WO 03/076118 A1	Sept. 18, 2003	PCT			X (abstract)	
	2002-192369	Oct. 7, 2002	Japan			X (abstract)	
	2005-159378	June 16, 2005	Japan			X (abstract)	
	2005-159379	June 16, 2005	Japan			X (abstract)	
	2002-192371	July 10, 2002	Japan			X (abstract)	
<del>_____</del>							
<del>_____</del>							

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

<b>Examiner</b>	/Elias Ullah/ (06/19/2007)	<b>Date Considered</b>	06/19/2007
-----------------	----------------------------	------------------------	------------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)

Attorney Docket No.: 46884-5317  
 Serial No.: 10/507,321  
 Applicants: Yoshimaro FUJII et al. Page 1 of 1  
 Filing Date: June 28, 2005  
 Group Art Unit: 2812

APR 20 2006  
 PTO Form 1449

**U.S. PATENT DOCUMENTS**

*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
/EUE	5,656,186	August 12, 1997	Mourou et al.	-	-	
/EUE	5,543,365	August 6, 1996	Wills et al.	-	-	
<del>_____</del>						
<del>_____</del>						

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Sub Class	Translation	
						YES	NO
/EU/	EP 1 026 735 A2	August 9, 2000	EP	—	—		
/EU/	WO 02/07927 A1	January 31, 2002	PCT	—	—		
/EU/	60-055640	March 30, 1985	JP	—	—	Abstract	
<del>_____</del>							
<del>_____</del>							

Examiner /Elias Ullah/ (06/19/2007) Date Considered 06/19/2007

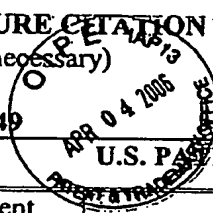
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



**INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

PTO Form 1449



Attorney Docket No.: 46884-5317

Serial No.: 10/507,321

Applicants: Yoshimaro FUJII et al.

Page 1 of 1

Filing Date: June 28, 2005

Group Art Unit: 2812

**U.S. PATENT DOCUMENTS**

*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
/EU/	5,211,805	May 18, 1993	Srinivasan	-	-	
<del> </del>						
<del> </del>						
<del> </del>						

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Sub Class	Translation	
						YES	NO
/EU/	10-305420	November 17, 1998	JP	—	—	Abstract	
/EU/	04-111800	April 13, 1992	JP	—	—	Abstract	
/EU/	09-017756	January 17, 1997	JP	—	—	Abstract	
/EU/	07-037840	February 7, 1995	JP	—	—	Abstract	
/EU/	2000-124537	April 28, 2000	JP	—	—	Abstract	
<del> </del>							
<del> </del>							

Examiner /Elias Ullah/ (06/19/2007) Date Considered 06/19/2007

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)  <b>PTO Form 1449</b>	Attorney Docket No.: 46884-5317	Serial No.: 10/507,321
	Applicants Yoshimaro FUJII et al.	Page 1 of 1
	Filing Date: September 10, 2004	Group Art Unit: 2812

**U.S. PATENT DOCUMENTS**

*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Sub Class	Translation	
						YES	NO
/EU/	2001-326194	November 22, 2001	JP	—	—	Abstract	
/EU/	11-071124	March 16, 1999	JP	—	—	Abstract	
/EU/	04-111800	April 13, 1992	JP	—	—	Abstract	
/EU/	61-112345	May 30, 1986	JP	—	—	Abstract	

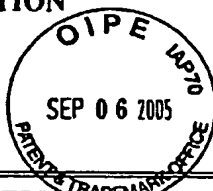
Examiner	/Elias Ullah/ (06/19/2007)	Date Considered	06/19/2007
----------	----------------------------	-----------------	------------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

PTO Form-1449



Attorney Docket No.:  
046124-5317

Application No.:  
10/507,321

Applicant(s):  
Yoshimaro FUJII et al.

PAGE 1 OF 1

Filing Date: September 10, 2004

Group Art Unit:  
2812

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Sub Class	Translation	
						Yes	No
/EU/	61-112345	May 30, 1986	Japan	—	—	Abstract	
/EU/	11-071124	March 16, 1999	Japan	—	—	Abstract	

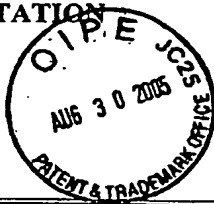
Examiner /Elias Ullah/ (06/19/2007) Date Considered 06/19/2007

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

**INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

PTO Form-1449



Attorney Docket No.:  
046124-5317

Application No.:  
10/507,321

Applicant(s):  
Yoshimaro FUJII et al.

PAGE 1 OF 2

Filing Date: September 10, 2004

Group Art Unit:  
Unassigned

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
/EU/	4,562,333	Dec. 31, 1985	Taub et al.			
	5,254,833	Oct. 19, 1993	Okiyama			
	5,543,365	Aug. 6, 1996	Wills et al.			
	5,622,540	Apr. 22, 1997	Stevens			
	5,637,244	Jun. 10, 1997	Erokhin			
	5,776,220	Jul. 7, 1998	Allaire et al.			
	5,826,772	Oct. 27, 1998	Ariglio et al.			
	6,055,829	May 2, 2000	Witzmann et al.			
	6,211,488	Apr. 3, 2001	Hoekstra et al.			
	6,252,197	Jun. 26, 2001	Hoekstra et al.			
	6,257,224	Jul. 10, 2001	Yoshino et al.			
	6,259,058	Jul. 10, 2001	Hoekstra			
	6,322,958	Nov. 27, 2001	Hayashi			
	6,420,678	Jul. 16, 2002	Hoekstra			
	6,489,588	Dec. 3, 2002	Hoekstra et al.			
	2002/0006765	Jan. 17, 2002	Michel et al.			
	2003/0024909	Feb. 6, 2003	Hoekstra et al.			

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

/EU/	T. Yajima et al., <i>New Version Laser Handbook</i> , published by Asakura Shoten, June 15, 1989, pps. 666-669
	<i>Tooling Machine Series, Laser Machining</i> , published by Taiga Shuppan, Inc., Sept. 10, 1990, pps. 91-96
	<i>Electronic Material</i> , No. 9, on 2002, published by Kogyo Chousakai, pps. 17-21
	F. Fukuyo et al., "Stealth Dicing Technology for Ultra Thin Wafer", presented at 2003 ICEP (International Conference on Electronics Packaging), April 16-18, 2003, Tokyo, Japan

Examiner /Elias Ullah/ (06/19/2007)

Date Considered 06/19/2007

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication.



Attorney Docket No.: 046124-5317  
 Application Number: 10/507,321

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)  <b>PTO Form-1449</b>	Attorney Docket No.: 046124-5317	Application No.: 10/507,321
	Applicant(s): Yoshimaro FUJII et al.	
	Filing Date: September 10, 2004	PAGE 2 OF 2 Group Art Unit: Unassigned

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Sub Class	Translation	
						Yes	No
/EU/	07-040336 A	Feb. 10, 1995	Japan			Abstract	
	10-163780 A	Jun. 19, 1998	Japan			Abstract	
	11-138896 A	May 25, 1999	Japan			Abstract	
	11-221684 A	Aug. 17, 1999	Japan			Abstract	
	11-267861 A	Oct. 5, 1999	Japan			Abstract	
	2000-015467 A	Jan. 18, 2000	Japan			Abstract	
	2000-219528 A	Aug. 8, 2000	Japan			Abstract	
	11-163403 A	Jun. 18, 1999	Japan			X	
	11-177137 A	July 2, 1999	Japan			X	
	64-38209	February 8, 1989	Japan			Abstract	d
	62-4341	January 10, 1987	Japan			Abstract	
	46-24989	July 19, 1971	Japan				X
	EP 863231	September 9, 1998	Europe				
	4-111800	April 13, 1992	Japan			X	
	2002-224878	August 13, 2002	Japan			Abstract	

**OTHER DOCUMENTS Cont. (Including Author, Title, Date, Pertinent Pages, Etc.)**

/EU/	K. Hayashi, "Inner Glass Marking by Harmonics of Solid-state Laser," Proceedings of 45th Laser Materials Processing Conference, Dec. 1998, pps. 23-28
	T. Sano et al., "Evaluation of Processing Characteristics of Silicon With Picosecond Pulse Laser," Preprints of the National Meeting of Japan Welding Society, No. 66, April 2000, pp. 72-73
	K. Miura et al., "Formation of Photo-induced Structures in Glasses with Femtosecond Laser," Proceedings of 42nd Laser Materials Processing Conference, Nov. 1997, pp. 105-111.
	T. Miyazaki, "Laser Beam Machining Technology," Published by Sangyo-Tosho Inc., May 31, 1991, First Edition. pps. 9-10

Examiner	/Elias Ullah/ (06/19/2007)	Date Considered	06/19/2007
----------	----------------------------	-----------------	------------

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

<b>Notice of References Cited</b>	Application/Control No. 10/507,321	Applicant(s)/Patent Under Reexamination FUJII ET AL.	
	Examiner Elias Ullah	Art Unit 2812	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A US-5,211,805	05-1993	Srinivasan, Rangaswamy	216/58
*	B US-2002/0158288	10-2002	Yamazaki et al.	257/343
	C US-			
	D US-			
	E US-			
	F US-			
	G US-			
	H US-			
	I US-			
	J US-			
	K US-			
	L US-			
	M US-			

**FOREIGN PATENT DOCUMENTS**

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N				
	O				
	P				
	Q				
	R				
	S				
	T				

**NON-PATENT DOCUMENTS**

*	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
U	
V	
W	
X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.